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PTO/SB/05 (2/98) (modified)  
Approved for use through 9/30/2000, OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

<b>NEW UTILITY PATENT APPLICATION TRANSMITTAL</b>  <i>(only for new nonprovisional applications under 37 CFR 1.53(b))</i>	Attorney Docket Number	4483 US
	First Named Inventor	Pavlovic
	Total Pages in this Submission	72
	Express Mail Label No.	EL482472084US

APPLICATION ELEMENTS	ACCOMPANYING APPLICATION PARTS
<p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (in duplicate)  <input checked="" type="checkbox"/> Check Enclosed \$345.00</p> <p>2. <input checked="" type="checkbox"/> Specification (21 pages)  <i>(preferred arrangement set forth below)</i></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Descriptive Title of the Invention</li> <li><input checked="" type="checkbox"/> Cross Reference(s) to Related Case(s)</li> <li><input checked="" type="checkbox"/> Statement Regarding Fed sponsored R &amp; D</li> <li><input checked="" type="checkbox"/> Background of the Invention</li> <li><input checked="" type="checkbox"/> Brief Summary of the Invention</li> <li><input checked="" type="checkbox"/> Brief Description of the Drawing(s)</li> <li><input checked="" type="checkbox"/> Detailed Description</li> <li><input checked="" type="checkbox"/> Claim or Claims</li> <li><input checked="" type="checkbox"/> Abstract of the Disclosure</li> </ul> <p>3. <input checked="" type="checkbox"/> Drawing(s) (when necessary per 35 USC 113)  (44 pages)</p> <p>4. Oath or Declaration</p> <p>a. <input checked="" type="checkbox"/> New Declaration (3 pages)  <input type="checkbox"/> Executed</p> <p>b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d))  <i>(for continuation/divisional with Box 17 completed)</i></p> <p>i. <input type="checkbox"/> DELETION OF INVENTOR(S)  Signed statement attached deleting inventor(s)  named in the prior application, see 37 CFR  1.63(d)(2) and 1.33(b).</p> <p>5. <input type="checkbox"/> Incorporation by Reference (useable if Box 4b is  checked). The entire disclosure of the prior application,  from which a copy of the oath or declaration is supplied  under Box 4b, is considered as being part of the disclosure  of the accompanying application and is hereby incorporated  by reference therein.</p>	<p>6. <input type="checkbox"/> Assignment &amp; Assignment Recordation Cover Sheet</p> <p>7. <input type="checkbox"/> Certified Copy of Priority Document(s)  <i>(if foreign priority is claimed)</i></p> <p>8. <input type="checkbox"/> Information Disclosure Statement &amp; PTO-1449  <input type="checkbox"/> Copies of IDS Citation(s)</p> <p>9. <input type="checkbox"/> Preliminary Amendment</p> <p>10. Small Entity Statement</p> <p><input checked="" type="checkbox"/> New Statement enclosed (1 page)</p> <p><input type="checkbox"/> Statement filed in prior application. Status still  proper and desired</p> <p>11. <input checked="" type="checkbox"/> Return Postcard</p> <p>12. <input type="checkbox"/> _____</p> <p>13. <input type="checkbox"/> _____</p> <p>14. <input type="checkbox"/> _____</p> <p>15. <input type="checkbox"/> _____</p> <p>16. <input type="checkbox"/> _____</p>

**ADDRESS TO:**  
**Box Patent Application**  
**Commissioner for Patents**  
**Washington, D.C. 20231**

17. If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information below and in a preliminary amendment:  
☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: \_\_\_\_/\_\_\_\_  
Prior application information: Examiner: \_\_\_\_\_ Group/Art Unit: \_\_\_\_\_

18. CORRESPONDENCE ADDRESS					
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Name (Print/Type)	Laura A. Majerus			Registration No. (Attorney/Agent)	33,417
Signature	Laura Majerus			Date	September 19, 2000

0002/PTO(modified) Rev. 10/95	U.S. Department of Commerce Patent and Trademark Office	<b>Complete if Known</b>	
<b>FEE TRANSMITTAL</b>  <b>TOTAL AMOUNT OF PAYMENT</b> Subtotal (1) + Subtotal (2) + Subtotal (3) = <b>(\$345.00)</b>		Application Number	To Be Assigned
		Filing Date	Herewith
		First Named Inventor	Pavlovic
		Group Art Unit	To Be Assigned
		Examiner Name	To Be Assigned
		Attorney Docket Number	4483 US

METHOD OF PAYMENT	FEE CALCULATION (continued)																																																																																																																
<b>1. The Commissioner is hereby authorized to:</b>  <input type="checkbox"/> Charge the indicated fees to the below mentioned deposit account.  <input checked="" type="checkbox"/> Charge any additional fee required under 37 CFR 1.16 - 1.21 or credit any over payments to the below mentioned deposit account. †  <input type="checkbox"/> Charge the Issue Fee set in 37 CFR 1.18 at the Mailing of the Notice of Allowance, 37 CFR 1.311(b) to the below mentioned deposit account.  Deposit Account Number: 19-2555 Deposit Account Name: FENWICK & WEST LLP  A Duplicate Copy of this authorization is attached  <b>2. <input checked="" type="checkbox"/> Payment Enclosed:</b> <input checked="" type="checkbox"/> Check <input type="checkbox"/> Other  <b>FEE CALCULATION (fees effective 11/12/98)</b> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Large Entity Fee Code/Fee</th> <th>Small Entity Fee Code/Fee</th> <th>Fee Description</th> <th>Fee Due</th> </tr> <tr> <td>101/\$690</td> <td>201/\$345</td> <td>Utility Filing</td> <td><b>345</b></td> </tr> <tr> <td>106/\$310</td> <td>206/\$155</td> <td>Design Filing</td> <td></td> </tr> <tr> <td>108/\$690</td> <td>208/\$345</td> <td>Reissue</td> <td></td> </tr> <tr> <td>114/\$150</td> <td>214/\$75</td> <td>Provisional Filing</td> <td></td> </tr> <tr> <td colspan="3"><b>SUBTOTAL (1)</b></td> <td><b>(\$ 345.00)</b></td> </tr> </table>	Large Entity Fee Code/Fee	Small Entity Fee Code/Fee	Fee Description	Fee Due	101/\$690	201/\$345	Utility Filing	<b>345</b>	106/\$310	206/\$155	Design Filing		108/\$690	208/\$345	Reissue		114/\$150	214/\$75	Provisional Filing		<b>SUBTOTAL (1)</b>			<b>(\$ 345.00)</b>	<b>3. 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<b>SUBMITTED BY</b>		<b>Complete (if applicable)</b>	
Typed or Printed Name	Laura A. Majerus	Reg. Number	33,417
Signature	<i>Laura Majerus</i>	Date	September 19, 2000

† Request for Extension of Time per 37 CFR 1.136 (d)(3) made hereby  
Rev. 11/04/99

PTO/SB/11 (6-95) (modified)

Approved for use through 07/31/96 OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

**VERIFIED STATEMENT CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.9(e) & 1.27(d))-NONPROFIT ORGANIZATION**

Docket Number (Optional):

Applicant or Patentee: Dusko Pavlovic, Douglas Smith and Junbo LiuApplication or Patent No. To Be AssignedFiling Date or Issue Date: HerewithTitle: Method and Apparatus for Determining Colimits of Hereditary Diagrams

I hereby declare that I am an official empowered to act on behalf of the nonprofit organization identified below:

NAME OF NONPROFIT ORGANIZATION: Kestrel InstituteADDRESS OF NONPROFIT ORGANIZATION: 3260 Hillview AvenuePalo Alto, California 94304**TYPE OF NONPROFIT ORGANIZATION:**☐ UNIVERSITY OR OTHER INSTITUTION OF HIGHER EDUCATION☒ TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 U.S.C. 501(c)(3))☐ NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA  
(NAME OF STATE \_\_\_\_\_)  
(CITATION OF STATUTE \_\_\_\_\_)☐ WOULD QUALIFY AS TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 U.S.C. 501(c)(3)) IF  
LOCATED IN THE UNITED STATES OF AMERICA☐ WOULD QUALIFY AS NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED  
STATES OF AMERICA IF LOCATED IN THE UNITED STATES OF AMERICA  
(NAME OF STATE \_\_\_\_\_)  
(CITATION OF STATUTE \_\_\_\_\_)

I hereby declare that the nonprofit organization identified above qualifies as a nonprofit organization as defined in 37 CFR 1.9(c) for purposes of paying reduced fees to the United States Patent and Trademark Office regarding this invention described in:

- ☒ the specification filed herewith with title as listed above.  
☐ the application identified above.  
☐ the patent identified above.

I hereby declare that rights under contract or law have been conveyed to and remain with the nonprofit organization regarding the above identified invention. If the rights held by the nonprofit organization are not exclusive, each individual, concern or organization having rights in the invention must file separate verified statements averring to their status as small entities and that no rights in the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each such person, concern or organization having any rights in the invention is listed below:

- ☒ no such person, concern, or organization exists.  
☐ each such person, concern or organization is listed below

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING: Dr. Cordell GreenTITLE IN ORGANIZATION OF PERSON SIGNING: Director, Kestrel InstituteADDRESS OF PERSON SIGNING: 3260 Hillview Avenue, Palo Alto, CA 94304SIGNATURE: Cordell GreenDATE: 9/18/00

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 3/DOCS/10  
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